

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P481184

Luminaire Tested: **IFLD-L-SA7A-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481184
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

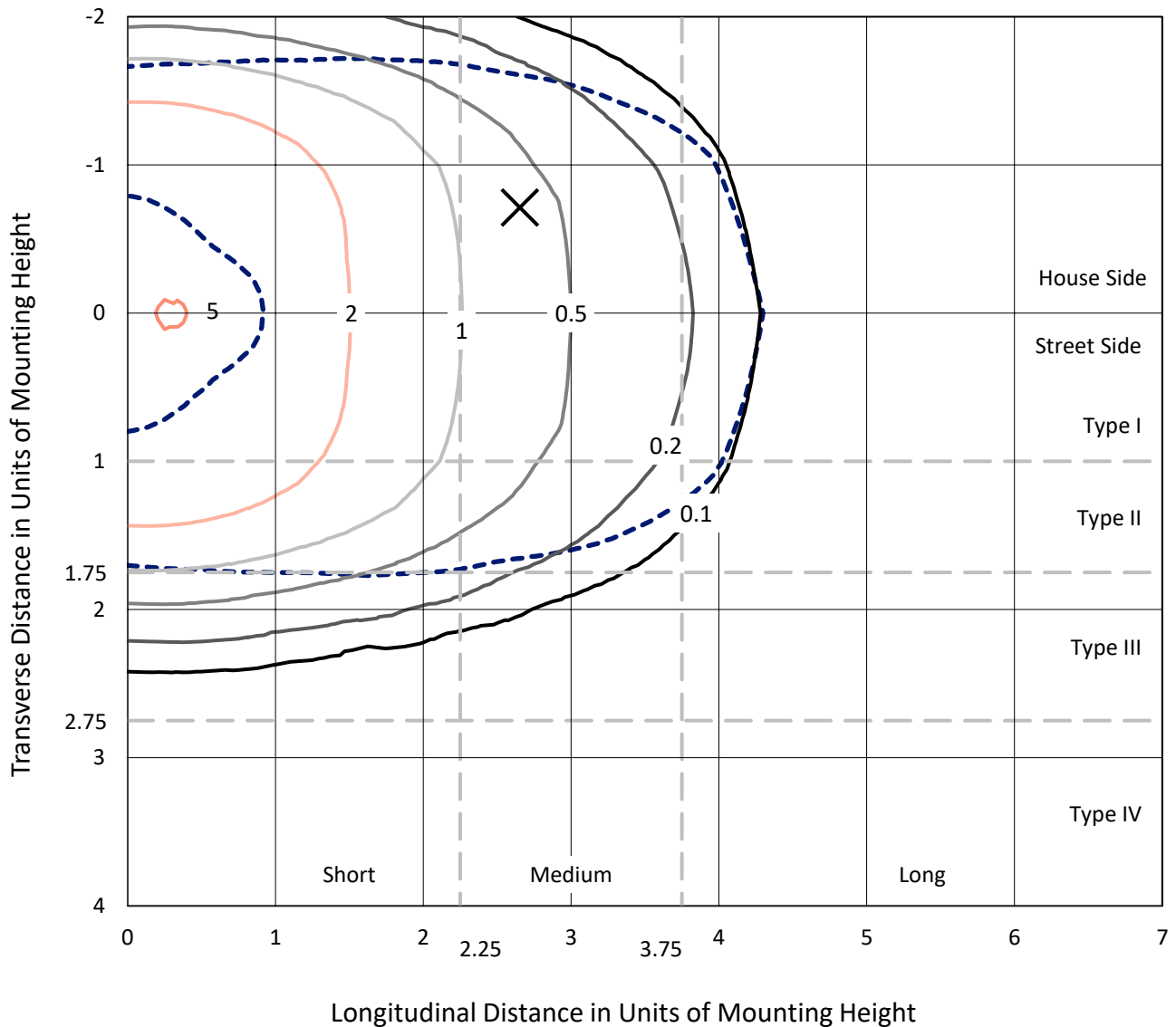
Lumens per Lamp: N/A
Luminaire Lumens: 26962.6 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

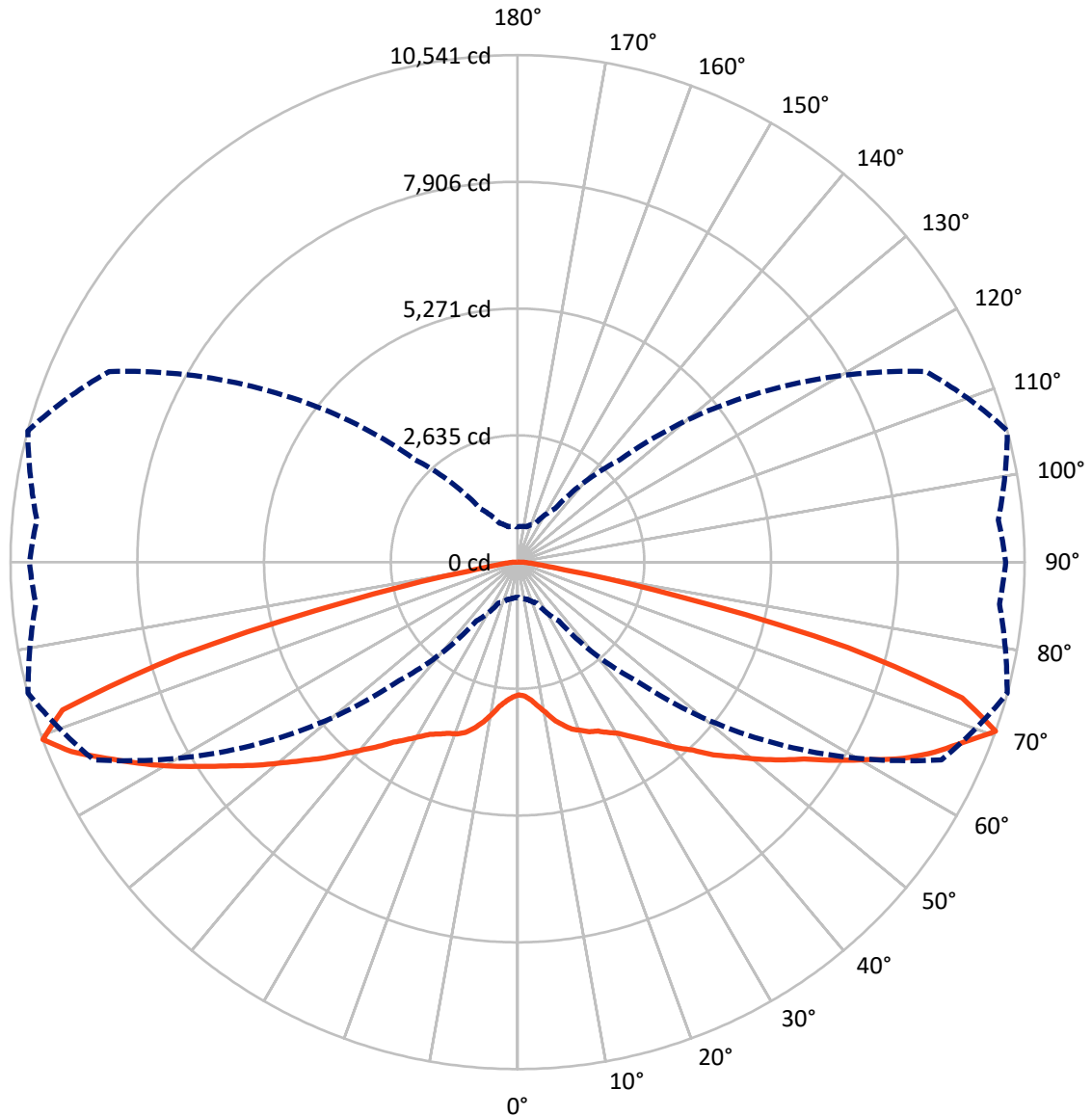
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13385.4	0.0	13385.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13577.2	0.0	13577.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	26962.6	0.0	26962.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.0
10°-20°	935.7	3.5
20°-30°	1811.8	6.7
30°-40°	3064.5	11.4
40°-50°	4888.9	18.1
50°-60°	6691.8	24.8
60°-70°	6307.5	23.4
70°-80°	2778.6	10.3
80°-90°	209.1	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26962.6	100.0
0°-180°	26962.6	100.0

Coefficient of Utilization

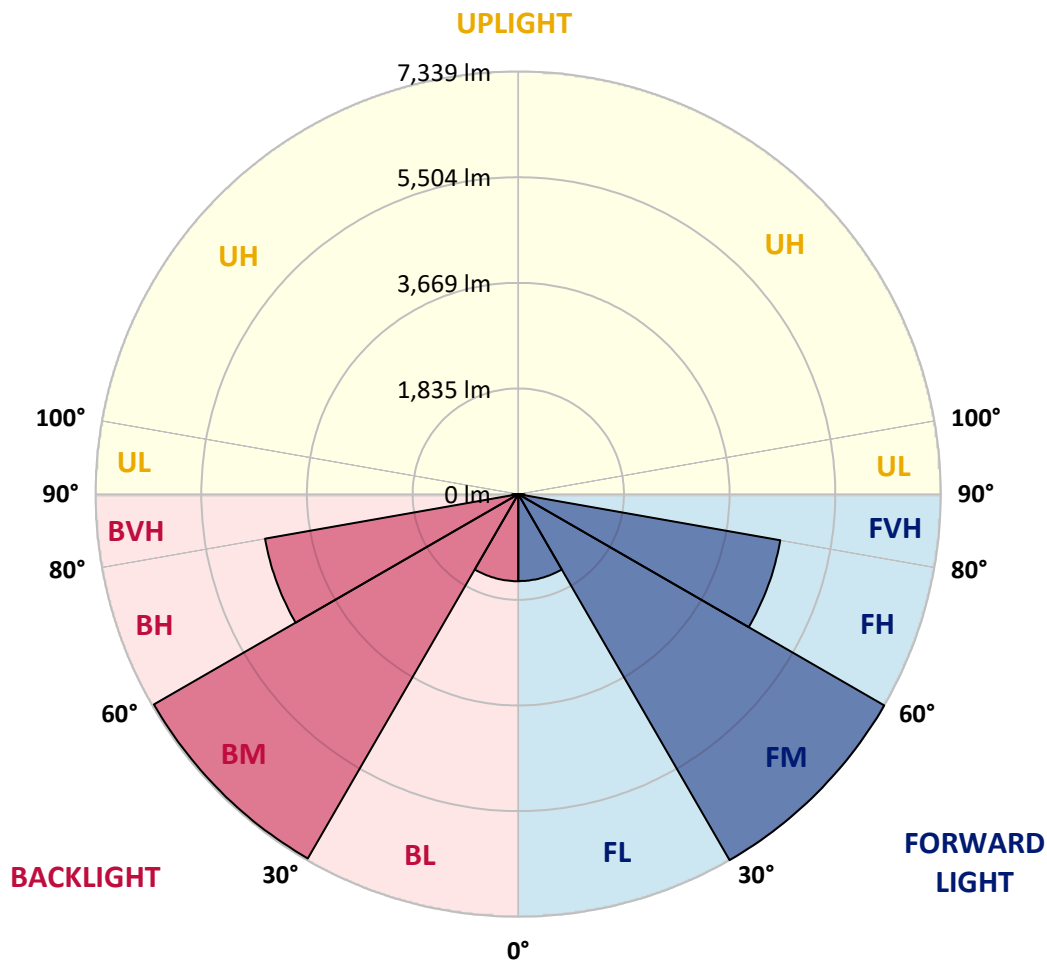


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.3	5.6			
FM (30°-60°)	7339.0	27.2			
FH (60°-80°)	4621.1	17.1			G2/5000
FVH (80°-90°)	106.8	0.4			G2/225
BL (0°-30°)	1512.0	5.6	B3/2500		
BM (30°-60°)	7306.2	27.1	B4/8500		
BH (60°-80°)	4465.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	102.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9
2.5°	2743.5	2743.5	2740.6	2755.1	2769.7	2775.5	2787.1	2790.0	2807.4	2792.9	2822.0
5°	2734.8	2731.9	2755.1	2790.0	2790.0	2827.8	2851.0	2883.0	2891.7	2909.2	2915.0
7.5°	2795.8	2790.0	2778.4	2816.2	2848.1	2906.3	2938.2	2993.4	3013.8	3037.0	3063.2
10°	2833.6	2833.6	2822.0	2888.8	2917.9	2996.4	3066.1	3121.3	3199.8	3225.9	3228.9
12.5°	2839.4	2848.1	2883.0	2970.2	3051.6	3153.3	3205.6	3310.2	3388.7	3438.1	3455.5
15°	2926.6	2909.2	2946.9	3066.1	3185.3	3275.4	3368.4	3443.9	3557.3	3621.2	3661.9
17.5°	3005.1	2987.6	3057.4	3199.8	3321.9	3461.4	3542.7	3624.1	3705.5	3763.6	3766.5
20°	3130.0	3144.6	3205.6	3359.6	3519.5	3641.5	3734.5	3749.1	3789.8	3874.0	3859.5
22.5°	3284.1	3272.4	3400.3	3568.9	3743.3	3845.0	3897.3	3859.5	3839.2	3929.3	3949.6
25°	3438.1	3473.0	3589.2	3746.2	3955.4	4092.0	4106.5	4001.9	3926.4	3958.3	3949.6
27.5°	3673.5	3679.3	3801.4	3987.4	4199.5	4318.7	4310.0	4161.8	4016.5	4019.4	4025.2
30°	3975.8	3946.7	4080.4	4249.0	4458.2	4565.7	4580.3	4368.1	4173.4	4115.3	4129.8
32.5°	4266.4	4301.3	4417.5	4609.3	4763.4	4824.4	4792.4	4603.5	4350.7	4272.2	4280.9
35°	4638.4	4632.6	4792.4	4955.2	5071.4	5083.1	5056.9	4780.8	4542.5	4440.8	4400.1
37.5°	5036.6	5088.9	5193.5	5327.2	5449.2	5455.1	5312.6	5091.8	4798.2	4629.7	4679.1
40°	5481.2	5539.3	5614.9	5809.6	5899.7	5806.7	5661.4	5362.1	5056.9	4908.7	4931.9
42.5°	5873.6	5899.7	6053.7	6283.3	6326.9	6286.2	6071.2	5707.9	5353.3	5190.6	5202.2
45°	6233.9	6268.8	6469.3	6675.7	6777.4	6707.7	6457.7	6111.9	5699.2	5559.7	5504.5
47.5°	6565.2	6635.0	6829.7	7041.9	7198.8	7204.6	6896.6	6478.1	6042.1	5859.0	5856.1
50°	6789.0	6890.7	7082.6	7323.8	7553.4	7643.5	7335.4	6884.9	6417.0	6222.3	6202.0
52.5°	6911.1	7015.7	7207.5	7582.4	7838.2	7977.7	7832.4	7265.7	6855.9	6652.4	6620.5
55°	6762.9	6832.6	7146.5	7672.5	8067.8	8297.4	8201.5	7791.7	7291.8	7126.2	7155.2
57.5°	6132.2	6277.5	6664.1	7320.9	8062.0	8625.8	8617.1	8288.7	7794.6	7637.7	7643.5
60°	5048.2	5170.2	5646.9	6565.2	7736.5	8759.5	9067.5	8771.1	8358.4	8175.3	8169.5
62.5°	3563.1	3717.1	4269.3	5272.0	6777.4	8573.5	9584.8	9378.5	8910.6	8776.9	8826.3
65°	1993.7	2086.7	2598.2	3505.0	5164.4	7550.5	9677.8	10009.2	9471.5	9268.1	9276.8
67.5°	1066.6	1101.5	1339.8	1839.7	3159.1	5821.2	8739.1	10372.4	10078.9	9727.3	9672.0
70°	732.4	744.0	805.0	941.6	1493.8	3481.7	6591.4	9724.3	10535.2	10055.7	10148.7
72.5°	619.0	613.2	627.8	642.3	781.8	1557.8	3868.2	7483.6	9945.2	9765.0	9730.2
75°	537.7	534.8	540.6	526.0	543.5	685.9	1711.8	4664.5	7280.2	8125.9	8256.7
77.5°	444.7	447.6	450.5	435.9	430.1	453.4	688.8	2048.9	3583.4	3955.4	4266.4
80°	337.1	342.9	366.2	351.7	328.4	331.3	406.9	685.9	1028.8	932.9	962.0
82.5°	229.6	232.5	281.9	264.5	247.0	223.8	261.6	354.6	401.1	305.2	267.4
85°	162.8	159.8	183.1	168.6	156.9	113.3	156.9	200.5	241.2	151.1	136.6
87.5°	37.8	37.8	75.6	61.0	58.1	46.5	61.0	78.5	104.6	66.8	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9
2.5°	2813.3	2787.1	2787.1	2781.3	2758.0	2752.2	2731.9	2737.7	2723.2	2708.6
5°	2912.1	2877.2	2877.2	2827.8	2781.3	2775.5	2752.2	2752.2	2729.0	2734.8
7.5°	3048.7	3016.7	2964.4	2920.8	2856.9	2830.7	2787.1	2781.3	2775.5	2763.9
10°	3211.4	3170.7	3118.4	3028.3	2976.0	2926.6	2883.0	2822.0	2807.4	2810.4
12.5°	3432.3	3368.4	3255.0	3176.5	3109.7	3045.8	2981.8	2891.7	2871.4	2880.1
15°	3589.2	3507.9	3394.5	3365.5	3275.4	3196.9	3092.3	2990.5	2955.7	2946.9
17.5°	3717.1	3650.3	3583.4	3539.8	3467.2	3371.3	3225.9	3109.7	3031.2	3022.5
20°	3821.7	3734.5	3720.0	3746.2	3656.1	3592.1	3414.9	3272.4	3167.8	3124.2
22.5°	3885.7	3830.5	3871.1	3894.4	3888.6	3781.0	3598.0	3432.3	3301.5	3260.8
25°	3955.4	3891.5	4036.8	4115.3	4135.6	3958.3	3815.9	3598.0	3470.1	3443.9
27.5°	3990.3	4013.5	4182.1	4347.8	4333.2	4196.6	4004.8	3810.1	3708.4	3661.9
30°	4092.0	4129.8	4385.5	4571.5	4574.5	4440.8	4295.5	4074.6	3961.2	3940.9
32.5°	4275.1	4321.6	4594.8	4792.4	4827.3	4725.6	4580.3	4443.7	4327.4	4280.9
35°	4414.6	4533.8	4841.8	5022.0	5115.0	5054.0	4972.6	4830.2	4708.1	4667.5
37.5°	4615.1	4780.8	5077.2	5321.4	5426.0	5420.2	5359.1	5205.1	5103.4	5068.5
40°	4902.9	5068.5	5338.8	5661.4	5856.1	5847.4	5812.5	5693.4	5542.2	5524.8
42.5°	5208.0	5344.6	5696.3	6065.4	6344.4	6315.3	6222.3	6082.8	5978.2	5954.9
45°	5504.5	5716.6	6042.1	6515.8	6725.1	6797.7	6687.3	6449.0	6329.8	6315.3
47.5°	5876.5	6045.0	6451.9	6876.2	7187.2	7198.8	7009.9	6789.0	6571.1	6617.6
50°	6207.8	6431.6	6844.2	7309.2	7681.2	7547.6	7306.3	7030.2	6873.3	6812.3
52.5°	6562.3	6835.5	7315.1	7788.8	7995.1	7861.4	7469.1	7161.0	6922.7	6896.6
55°	7079.7	7222.1	7849.8	8213.1	8279.9	7998.0	7419.7	6983.7	6675.7	6600.1
57.5°	7605.7	7771.3	8320.6	8634.5	8564.8	7922.5	7100.0	6425.7	6021.8	5914.2
60°	8137.5	8341.0	8803.1	9090.8	8730.4	7402.2	6196.1	5327.2	4856.4	4760.5
62.5°	8730.4	8994.9	9407.6	9509.3	8239.2	6373.4	4917.4	3845.0	3368.4	3208.5
65°	9256.4	9526.7	10035.3	9422.1	7195.9	4754.6	3179.4	2197.1	1845.5	1717.6
67.5°	9689.5	9994.6	10244.6	8338.1	5269.1	2784.2	1656.6	1156.7	1025.9	979.4
70°	10032.4	10541.0	9372.7	6129.3	3010.9	1357.2	895.1	761.4	744.0	732.4
72.5°	9733.1	9666.2	6998.3	3536.9	1319.4	746.9	648.1	627.8	624.8	627.8
75°	7960.2	7100.0	4185.0	1537.4	662.6	540.6	537.7	528.9	543.5	543.5
77.5°	3862.4	3377.1	1749.6	659.7	435.9	424.3	438.8	438.8	438.8	438.8
80°	895.1	991.0	624.8	401.1	316.8	316.8	348.8	351.7	337.1	331.3
82.5°	305.2	406.9	342.9	252.8	209.3	235.4	264.5	270.3	223.8	226.7
85°	151.1	238.3	186.0	145.3	107.5	145.3	171.5	180.2	154.0	148.2
87.5°	69.8	104.6	69.8	49.4	37.8	52.3	49.4	40.7	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)